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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/719,279	11/21/2003	Yuanning Chen	TI-35022.2	3199		
23494	7590 10/18/2004		EXAM	EXAMINER		
TEXAS INSTRUMENTS INCORPORATED			CHEN, JACK S J			
P O BOX 6554 DALLAS, TX			ART UNIT	PAPER NUMBER		
ŕ			2813			
			DATE MAILED: 10/18/200-	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/719,279	CHEN ET AL.				
		Examiner	Art Unit				
		Jack Chen	2813				
Period fe	The MAILING DATE of this communication or Reply	appears on the cover sheet	with the correspondence address	s			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THE PROPERTY OF SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory price to reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may n. a reply within the statutory minimum of eriod will apply and will expire SIX (6) N statute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	ication.			
Status							
1)[\]	Responsive to communication(s) filed on	02 August 2004					
·	This action is FINAL . 2b) ☐ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>4 and 7</u> is/are pending in the app 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>4 and 7</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a	ndrawn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the Example 1.	miner.					
10)[))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to	- · · ·					
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	·					
Priority :	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Buse the attached detailed Office action for a	nents have been received. nents have been received in priority documents have be ureau (PCT Rule 17.2(a)).	n Application No en received in this National Stag	e			
Attachmer	nt(s)	·					
1) Notice 2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/Ster No(s)/Mail Date	Paper I	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)) ,			

DETAILED ACTION

In response to the communication filed on August 2, 2004, claims 4 and 7 are active in this application. Claims 1-3, 5-6 and 8-11 were cancelled (see preliminary amendment dated on November 21, 2003).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 4 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al., U.S./6,713,357 B1.

Wang et al. Disclose an IC comprises a NMOS transistor (see abstract section, CMOS includes both PMOS and NMOS; also see col. 6, lines 17-25), said NMOS transistor having a gate oxide 5 (fig. 1B), a lightly doped drain 7/8 coupled to said gate oxide (fig. 1B), and a cap layer 10 coupled to a majority of a top surface of said lightly doped drain but separated from said gate oxide (fig. 1B), said cap layer comprised of a high dielectric constant material (fig. 1B; col. 6, lines 46-50), see figs. 1A-4 and cols. 1-12 for more details.

3. Claims 4 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by En et al., U.S./6,764,966 B1.

En et al. Disclose an IC comprises a NMOS transistor (col. 5, lines 50-65), said NMOS transistor having a gate oxide 20 (fig. 1), a lightly doped drain 14/16 coupled to said gate oxide

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(fig. 1), and a cap layer 28 coupled to a majority of a top surface of said lightly doped drain but separated from said gate oxide (fig. 1), said cap layer comprised of a high dielectric constant material (fig. 1), see figs. 1-13 and cols. 1-14 for more details.

Response to Arguments

4. Applicant's arguments with respect to claims 4 and 7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (571)272-1689. The examiner can normally be reached on Monday-Friday (9:00am-6:30pm) alternate Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Chen

Primary Examiner

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